

Title (en)

Device for biological analyses by enzymimmunoassay detection of antibodies or antigens in a serum.

Title (de)

Vorrichtung für biologische Analysen mittels Enzymimmun-Test von Antikörpern oder Antigenen in einem Serum.

Title (fr)

Dispositif pour la réalisation d'analyses biologiques par détection immuno-enzymatique d'anticorps ou d'antigènes dans un sérum.

Publication

EP 0352689 A1 19900131 (FR)

Application

EP 89113559 A 19890724

Priority

FR 8810211 A 19880728

Abstract (en)

[origin: JPH0275956A] PURPOSE: To shorten the total duration of analysis and to limit the number of operations by constituting a processor of a hub, a plurality of cartridge supporting lifts, a plurality of optical reading gauges, various kinds of modules, etc. CONSTITUTION: The hub 41 of a processor 40 is fixed to twelve cartridge supporting lifts 51 radially distributed at regular intervals around the hub 41. Optical reading gauges 65 are respectively arranged on the peripheral edge of the device 40 in a state where the gauges 65 are respectively faced to the entrance surfaces of the lifts 51. A module 80 reads a reaction by means of a chromaticity measuring means, a light emitting means, etc., and another module 81 houses an electromagnet which rotates the well 20 of a cartridge 1. A third module 82 has hammers which respectively tilt around their axial lines under the control of the electromagnet and the hammers are counterposed to reagent bags arranged on a cutting member. All operations of the processor 40 are controlled by means of a programmed computer. Consequently, all operations of the processor 40 required for the immuno-enzymatic detection can be automatically performed in a short time with high reliability and accuracy.

Abstract (fr)

Le dispositif selon l'invention comporte une pluralité de cartouches (1) contenant le sérum, le conjugué, le substrat, le liquide bloquant et un puits récepteur contenant un écouvillon porteur d'antigènes. Un dispositif de traitement simultané (40) des cartouches (1) permet de réduire considérablement la durée de la réaction vis-à-vis des dispositifs de l'art antérieur.

IPC 1-7

G01N 21/27

IPC 8 full level

B01L 3/00 (2006.01); **G01N 21/07** (2006.01); **G01N 33/53** (2006.01); **G01N 33/543** (2006.01); **G01N 35/00** (2006.01); **G01N 35/02** (2006.01); **G01N 37/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [A] EP 0192968 A2 19860903 - ALLIED CORP [US]
- [A] US 3726645 A 19730410 - KACZMAREK T
- [A] EP 0166933 A1 19860108 - DU PONT [US]

Cited by

EP0469419A3; EP0626071A4; EP0693560A3; US5154896A; GB2311614A; GB2311614B; US6866821B2

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DOCDB simple family (application)

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